

RF EXPOSURE REPORT



Report No.: 17071461-FCC-H2

Supersede Report No.: N/A

Applicant	Shenzhen VVFLY Electronics Co,Ltd	
Product Name	Smart Snoring MASK	
Model No.	YA3100	
Serial No.	YA3200、YA3300、YA3400、YA3500、YA3600、YA3700、YA3800、YA3900	
Test Standard	FCC 2.1093:2016	
Test Date	December 28, 2017 to January 21, 2018	
Issue Date	January 22, 2018	
Test Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	
Equipment complied with the specification		<input checked="" type="checkbox"/>
Equipment did not comply with the specification		<input type="checkbox"/>
Aaron Liang Test Engineer	David Huang Checked By	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only		

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety

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1. Report Revision History

Report No.	Report Version	Description	Issue Date
17071461-FCC-H2	NONE	Original	January 22, 2018

2. Customer information

Applicant Name	Shenzhen VVFLY Electronics Co,Ltd
Applicant Add	Room 1310, changhong Building, keji 12 th road South , High-tech Industrial Park , Nanshan District, Shenzhen city, Guangdong province, China
Manufacturer	Shenzhen VVFLY Electronics Co,Ltd
Manufacturer Add	Room 1310, changhong Building, keji 12 th road South , High-tech Industrial Park , Nanshan District, Shenzhen city, Guangdong province, China

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108
FCC Test Site No.	535293
IC Test Site No.	4842E-1
Test Software	Radiated Emission Program-To Shenzhen v2.0

4. Equipment under Test (EUT) Information

Description of EUT: Smart Snoring MASK

Main Model: YA3100

Serial Model: YA3200 、 YA3300 、 YA3400 、 YA3500 、 YA3600 、 YA3700 、
YA3800、YA3900

Date EUT received: December 27, 2017

Test Date(s): December 28, 2017 to January 21, 2018

Antenna Gain: 3.1dBi

Antenna Type: Patch antenna

Type of Modulation: GFSK

RF Operating Frequency (ies): 2402-2480 MHz

Number of Channels: 40CH

Port: USB Port

Input Power: Battery:
Spec: 3.7V, 0.296Wh

Trade Name : N/A

FCC ID: 2ALXG-YA3100

5. FCC §2.1093 - Radiofrequency radiation exposure evaluation: portable devices.

5.1 RF Exposure

Standard Requirement:

According to §15.247 (i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})]^{1/2}$ ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,¹⁶ where

- $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

$$\text{result} = P\sqrt{F} / D$$

P= Maximum turn-up power in mW

F= Channel frequency in GHz

D= Minimum test separation distance in mm

5.2 Test Result

BLE Mode:

Modulation	CH	Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
GFSK	Low	2402	-3.72	-3±1	-2	0.631	0.20	3
	Mid	2440	-4.37	-3±1	-2	0.631	0.20	3
	High	2480	-4.95	-3±1	-2	0.631	0.20	3

Result: Compliance

No SAR measurement is required.